

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and (diphenylamine or n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl itaconamide or 4-hydroxydiphenylamine or phenothiazine) and (lubricate or lubricant or lubricating) and 508/291.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/21 14:06
S1	10	mishra.in. and graft copolymer	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/08/02 15:57
S2	32	srinivasan.in. and graft copolymer	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/08/02 16:01
S3	29	S2 not S1	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/08/02 15:58
S4	5	(ethyl petroleum).asn. and graft copolymer	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/08/02 16:01
S5	5	S4 not S1 not S2	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/08/02 16:03
S6	848	graft copolymer and ethylene and diphenylamine	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/02 16:14
S7	617	graft copolymer and ethylene and diphenylamine and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/02 16:14
S8	3	graft copolymer and ethylene-olefin and diphenylamine and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/05 15:32
S9	3	graft copolymer and ethylene-olefin and (diphenylamine or n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl itaconamide or 4-hydroxydiphenylamine or phenothiazine) and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/05 15:35

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S10	269	graft copolymer and (ethylene-olefin or ethylene near4 olefin or olefin near2 polymer) and (diphenylamine or n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl itaconamide or 4-hydroxydiphenylamine or phenothiazine) and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/05 15:35
S11	248	graft copolymer and (ethylene-olefin or ethylene near4 olefin) and (diphenylamine or n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl itaconamide or 4-hydroxydiphenylamine or phenothiazine) and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/05 15:36
S12	184	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and (diphenylamine or n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl itaconamide or 4-hydroxydiphenylamine or phenothiazine) and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/05 15:36
S13	180	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and (diphenylamine or n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl itaconamide or 4-hydroxydiphenylamine or phenothiazine) and (lubricate or lubricant or lubricating) and (zinc dialkyl dithiophosphates or friction modifier or corrosion inhibitor or extreme pressure agent or antioxidant or defoamer or antifoam or surfactant or detergent or pour point depressant)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/21 14:06

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S14	37	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and (diphenylamine or n-p-diphenylamine or 1,2,3,6-tetrahydrophthalimide or 4-anilinophenyl itaconamide or 4-hydroxydiphenylamine or phenothiazine) and (lubricate or lubricant or lubricating) and (zinc dialkyl dithiophosphates or friction modifier or corrosion inhibitor or extreme pressure agent or antioxidant or defoamer or antifoam or surfactant or detergent or pour point depressant) and engine	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 12:02
S15	26	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and (diphenylamine or n-p-diphenylamine or 1,2,3,6-tetrahydrophthalimide or 4-anilinophenyl itaconamide or 4-hydroxydiphenylamine or phenothiazine) and (lubricate or lubricant or lubricating) and (zinc dialkyl dithiophosphates or friction modifier or corrosion inhibitor or extreme pressure agent or antioxidant or defoamer or antifoam or surfactant or detergent or pour point depressant) and engine and crankcase	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/05 15:56
S16	11	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and (diphenylamine or n-p-diphenylamine or 1,2,3,6-tetrahydrophthalimide or 4-anilinophenyl) and (lubricate or lubricant or lubricating) and (zinc dialkyl dithiophosphates or friction modifier or corrosion inhibitor or extreme pressure agent or antioxidant or defoamer or antifoam or surfactant or detergent or pour point depressant) and engine and crankcase	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/05 16:07
S17	0	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and (diphenylamine or n-p-diphenylamine or 1,2,3,6-tetrahydrophthalimide or 4-anilinophenyl) and (lubricate or lubricant or lubricating)	EPO; JPO; DERWENT	ADJ	ON	2006/08/05 16:09

## EAST Search History

S18	321	graft copolymer and (ethylene-olefin or ethylene near2 olefin)	EPO; JPO; DERWENT	ADJ	ON	2006/08/05 16:08
S20	16	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and (lubricate or lubricant or lubricating)	EPO; JPO; DERWENT	ADJ	ON	2006/08/05 17:53
S21	4	((("4155955") or ("5216049") or ("5523351") or ("5936036"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/05 17:56
S22	1	ep-461774-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/05 18:02
S23	1	ep-491456-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/05 18:04
S24	1	wo-9906480-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/05 18:05
S26	1	"5075383".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 11:53
S27	1	n-p-diphenylamine	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 11:54
S28	3	n-p-diphenylamine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/08/06 11:54
S29	276	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and (methacrylamide) and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 12:03
S30	1	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and 4-anilinophenyl methacrylamide and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 12:03
S31	23	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and methacrylamide and (lubricate or lubricant or lubricating) and engine	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 12:11
S33	5	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and 4-anilinophenyl and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 12:28

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S34	1	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and 1,2,3, 6-tetrahydrophthalimide and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 12:14
S35	2	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and anilinophenyl near3 (methacrylate or methacrylamide) and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 12:28
S36	6	anilinophenyl near3 (methacrylate or methacrylamide) same glycidyl methacrylate	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/06 12:27
S37	0	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and anilinophenyl near3 (methacrylate or methacrylamide) and (lubricate or lubricant or lubricating)	EPO; JPO; DERWENT	ADJ	ON	2006/08/06 12:28
S38	0	graft copolymer and (ethylene-olefin or ethylene near2 olefin) and 4-anilinophenyl and (lubricate or lubricant or lubricating)	EPO; JPO; DERWENT	ADJ	ON	2006/08/07 08:35
S39	19	((("6107258") or ("6107257") or ("5556923") or ("5552096") or ("5523008") or ("5424367") or ("5298565") or ("5238588") or ("5188745") or ("5182041") or ("5155148") or ("5135996") or ("5075383") or ("4863623") or ("4810754") or ("4762890") or ("4506056") or ("4460788") or ("4340689"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/06 12:35
S41	10	S39 and graft polymer	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/08/06 12:35
S43	4	S39 and graft polymer and methacrylam\$	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/08/06 12:37
S44	16	((("4298522") or ("4147880") or ("4146489") or ("4092255") or ("4087619") or ("3979436") or ("3953411") or ("3886116") or ("3817916") or ("3767628") or ("3211793") or ("3148196"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/06 12:37
S45	0	S44 and graft polymer and methacrylam\$	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/08/06 12:37

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S46	1	S44 and graft polymer	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/08/06 12:37
S47	1	graft copolymer and 4-anilinophenyl and (lubricate or lubricant or lubricating)	EPO; JPO; DERWENT	ADJ	ON	2006/08/07 08:37
S48	0	(ethylene-propylene or ethylene near3 propylene) and 4-anilinophenyl and (lubricate or lubricant or lubricating)	EPO; JPO; DERWENT	ADJ	ON	2006/08/07 08:37
S49	36	(ethylene-propylene or ethylene near3 propylene) and 4-anilinophenyl and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/07 08:37
S50	6	(ethylene-propylene or ethylene near3 propylene) and graft copolymer and 4-anilinophenyl and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/07 08:57
S51	9	(ethylene-propylene or ethylene near3 propylene) and graft copolymer and anilinophenyl and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/07 08:57
S52	3	S51 not S50	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/07 09:36
S54	2	ep-461774-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/08/07 11:35
S56	379	internal combustion engine and exhaust gas recirculation and soot	USPAT	ADJ	ON	2006/08/09 09:41
S57	30	internal combustion engine and exhaust gas recirculation and soot same (lubricate or lubricant or lubricating)	USPAT	ADJ	ON	2006/08/09 10:44
S58	8791	copolymer same (graft or grafting) and extruder	USPAT	ADJ	ON	2006/08/09 10:45
S59	305	copolymer same (graft or grafting) and extruder near7 grafting	USPAT	ADJ	ON	2006/08/09 10:45
S60	131	copolymer same (graft or grafting) and extruder near7 grafting and (lubricate or lubricant or lubricating)	USPAT	ADJ	ON	2006/08/09 11:22
S61	64	olefin same copolymer same (graft or grafting) and extruder near7 grafting and (lubricate or lubricant or lubricating)	USPAT	ADJ	ON	2006/08/09 11:33

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S62	12	masticator near3 mixing	USPAT	ADJ	ON	2006/08/09 11:43
S65	6	anilinophenyl near4 methacrylamide same glycidyl methacrylate	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/09 11:54
S66	19	anilinophenyl near4 methacrylamide and copolymer and (lubricate or lubricant or lubricating)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/08/09 11:55
S67	3378	(olefin or diene or vinyl or vinylidene) near5 (polymer or copolymer or interpolymer) and (n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinylous or vinyl) same diphenylamine))	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:26
S68	2809	(olefin or diene or vinyl or vinylidene) near5 (polymer or copolymer or interpolymer) and (n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinylous or vinyl) same diphenylamine)) and (lubricate or lubricant or lubricating or oil)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:28
S69	752	(olefin or diene or vinyl or vinylidene) near5 (polymer or copolymer or interpolymer) and (n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinylous or vinyl) same diphenylamine)) and (lubricate or lubricant or lubricating or oil) and engine	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:29

## EAST Search History

S70	437	(olefin or diene or vinyl or vinylidene) near5 (polymer or copolymer or interpolymers) and (n-p-diphenylamine or 1,2,3,6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinyllogous or vinyl) same diphenylamine)) and (lubricate or lubricant or lubricating or oil) and engine and viscosity index improver	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:30
S71	0	(olefin or diene or vinyl or vinylidene) near5 (polymer or copolymer or interpolymers) and (n-p-diphenylamine or 1,2,3,6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinyllogous or vinyl) same diphenylamine)) and (lubricate or lubricant or lubricating or oil) and engine and viscosity index improver and catalyst	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:30
S72	342	(olefin or diene or vinyl or vinylidene) near5 (polymer or copolymer or interpolymers) and (n-p-diphenylamine or 1,2,3,6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinyllogous or vinyl) same diphenylamine)) and (lubricate or lubricant or lubricating or oil) and engine and viscosity index improver and catalyst	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:31



## EAST Search History

S73	204	(olefin or diene or vinl or vinylidene) near5 (polymer or copolymer or interpolymer) and (n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinylous or vinyl) same diphenylamine)) and (lubricate or lubricant or lubricating or oil) and engine and viscosity index improver and peroxide	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:31
S74	115	(olefin or diene or vinl or vinylidene) near5 (polymer or copolymer or interpolymer) and (n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinylous or vinyl) same diphenylamine)) and (lubricate or lubricant or lubricating or oil) and engine and viscosity index improver and peroxide and (graft or grafting)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:48
S75	7	(olefin or diene or vinl or vinylidene) near5 (polymer or copolymer or interpolymer) same (n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinylous or vinyl) same diphenylamine)) same (graft or grafting) and (lubricate or lubricant or lubricating or oil) and engine and viscosity index improver and peroxide	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:52

## EAST Search History

S76	17	(olefin or diene or vinl or vinylidene) near5 (polymer or copolymer or interpolymer) same (n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinylous or vinyl) same diphenylamine)) same (graft or grafting) and (lubricate or lubricant or lubricating or oil)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 16:09
S77	10	S76 not S75	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/20 15:52
S78	5	(olefin or diene or vinl or vinylidene) near5 (polymer or copolymer or interpolymer) same (n-p-diphenylamine or 1,2,3, 6-tetrahydrophthalimide or 4-anilinophenyl methacrylamide or 4-hydroxydiphenylamine or (aminodiphenylamine and isobutyraldehyde) or p-hydroxydiphenylamine or phenothiazine or ((vinylous or vinyl) same diphenylamine)) same (graft or grafting) and (lubricate or lubricant or lubricating or oil)	FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/02/20 16:10
S79	0	solvent neutral oil near5 (natural or synthetic or vegetable or mineral) near5 sus	USPAT	ADJ	ON	2007/02/21 09:33
S80	30	solvent neutral oil near5 (natural or synthetic or vegetable or mineral)	USPAT	ADJ	ON	2007/02/21 09:33